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U. S. Department of Agriculture

# Some Conditions Where Our Plants Will Grow . . .

PLANT IN DRY TO MOIST SOIL, ADJACENT TO WATER OR FLOODED DURING THE DUCK SEASON

Wild Duck Millet **Duck Wheat** Marsh Smartweed Giant Smartweed Sesbania False Bittersweet

Chufa or Nut Grass Reed Canary Grass

## IN FRESH WATER SLOUGHS. PONDS. LAKES AND RIVERS

Bur Reed Three-square Buirush Cattail Sweet Flag Wild Celery Wild Rice Muskarass

Wapato Duck Potato Deep Water Duck Potato Marsh Smartweed Great Bulrush Sago Pond Plant Redhead Grass

**Ducks Meat** Coontail Wampee Duck Corn American Lotus White Waterlily Water Cress

#### FOR ACID WATERS

Wampee Duck Corn Sweet Flag Wapato Duck Potato

Deep Water Duck Potato Cattail

Great Bulrush American Lotus White Waterlily

#### FOR BRACKISH WATERS

Wampee Duck Corn Widgeon Grass Sago Pond Plant Three-square Bulrush Salicornia

Redhead Grass Wild Celery Giant Smartweed Muskgrass Spartina

ALL OF THE ABOVE, EXCEPT WILD CELERY, WILL GROW WELL IN ALKALINE WATERS

#### FOR SALT WATERS

Widgeon Grass

Spartina Salt Marsh Buirush Salicornia

# SUBMERGED PLANTS . . . Plants that grow on, or below the surface of the water

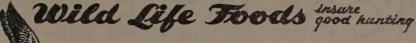
**Ducks Meat** Coontail Redhead Grass Wild Celery Sago Pond Plant Widgeon Grass

White Waterlily Muskgrass

# EMERGED PLANTS . . . Plants that grow above the surface of the water

Wild Rice Bur Reed Three-square Bulrush Cattail

Sweet Flag Wapato Duck Potato Deep Water Duck Potato Marsh Smartweed Great Bulrush Wampee Duck Corn American Lotus



# THE THINGS YOU CAN DO

to maintain more ducks and fish in your favorite waters, deal largely with providing FOOD, SHELTER AND PROTECTION. Food, shelter and protection are connected with the matter of maintaining suitable PLANT life. Animal life is indeed dependent on plant life!

# FOOD Is Most Important!

Plant products, seeds, tubers, roots, etc. make up the bulk of a duck's menu and part of what a fish eats. 90% of the ducks and geese diet consists of vegetation. Other things that they eat, such as insects, snails, crayfish, daphnia and other small forms of animal life are all dependent for their existence on plants. As an example, Wild Celery roots are not only eagerly eaten by the Canvasbacks, Blue-Bill and Redhead ducks, but the plants also support great numbers of snails that fish as well as ducks love.

#### SHELTER Needed Too!

Ducks, especially the marsh-loving kinds such as Mallard, Pintail and Teal stop and stay where they can find hiding places and protection from wind and cold, among the thick marsh grasses. The grasses that afford fine food in addition to shelter, as does the Giant Wild Rice, are doubly attractive to ducks. Young fish find excellent shelter and places of escape from their enemies, as well as food among the beds of water plants like Wild Celery, Sago Pond Plant, Muskgrass and Redhead Grass. A baby fish is safe from Heron, Kingfisher or Gull beneath the big floating pads of the Lotus.

### PLANT This Spring... Foods That Last For Years!

Some of the best food and cover producing plants for Ducks, Geese, Fish and Upland Game Birds are described on the inside of this folder. Let's pull together . . . Plant Your Share This Spring!

# OUR SEEDS GROW . . . SUCCESSFULLY USED . . . SINCE 1896!

#### **GUARANTEE!**

Most seedsmen make no guarantee of their seeds. However, since we specialize in only GRADE A-1 planting materials of the highest germination, we are confident that if planted in suitable conditions, they will produce excellent growth. We therefore make the following liberal guarantee:

If any of our planting materials fail to produce a satisfactory growth, after giving planting sufficient time to establish itself, we GUARANTEE to replace the original order at half price, or furnish any other planting materials from our current list, to equal the value of the original order, at one-half price.



# "FOOD IS THE SECRET" in Attracting and Holding Wild Ducks, Geese and Upland Game Birds . . .

MAKE YOUR PRESERVE PAY, by planting "Natural Foods" this Spring.

# --- MORE FOOD means MORE GAME ---

#### GIANT SMARTWEED seed

Will grow in few inches of water, but to start bed, it is better to sow seed on moist to wet soil. Stands flooding and drought. Sow 25 lbs. seed per acre in fresh or moderately brackish areas. All upland game birds feed on this seed.

10 lbs., \$5 - 100 lbs., \$45

#### WILD DUCK MILLET seed

An important Duck food, as well as Geese, Quail, Doves and Upland Game Birds. Thrives throughout the U. S. Plant on mud flats, lowland areas left bare as water recedes during Summer. Excellent where land can be drained and flooded. Also grows on uplands where ever there is enough moisture to grow a good garden. Grows quickly, can be planted late, provides grazing for waterfowl two weeks after planting, produces seed in less than 60 days. GRADE A-1 SEED. 100 lbs. sows 4 acres.

25 lbs., \$10 — 100 lbs., \$22 Write for special price on ton lots

#### SESBANIA seed

Finest Quail food known, also for Doves, Wild Turkey and other Upland Game Birds. Excellent Duck food when planted in shallow water or in marshy places around ponds and lakes. Plant from Illinois Southward on most any type soil, but thrives best en moist, heavy lands. Makes wonderful cover. Sow 20 lbs. per acre.

10 lbs., \$6 — 100 lbs., \$50

#### REED CANARY GRASS seed

Soil-binder, retards erosion and washing of shores, banks, dams. Sow on banks, shores, moist lands or well-drained land. Food for muskrats...cover for ducks. Sow 6 lbs. per acre.

\$1.25 per lb. - 10 lbs. or more, \$1 per lb.

#### CHUFA seed (Nut Grass)

Excellent food for Doves, Quail, Wild Turkeys, etc.. Good duck food when planted near water or flooded after maturity. Drop tubers in rows like corn, or broadcast and drag in. Plant in South only.

10 lbs., \$6 - 100 lbs., \$50

#### **DUCK WHEAT — GOOSE BUCKWHEAT**

An excellent food for both Waterfowl and Upland Game Birds, holds its seed well into the cold weather and the birds are extremely fond of it. Plant on drained soil, matures in about eleven weeks. About 25 lbs. of seed per acre in the Spring will make a perfect feeding area. Plant adjacent to water or flood in the Fall for Ducks.

25 lbs., \$10 - 100 lbs., \$22

#### AMERICAN LOTUS seed

Ornamental — also valuable duck, fish and muskrat food. Plant in 1 to 3 ft. fresh water, soft bottom. Our Lotus seeds are treated to assure quick germination.

SEEDS: 100, \$5 -- 500, \$20

#### WAPATO DUCK POTATO tubers

Excellent Marsh Duck Food. Not only attracts Wild Ducks but also Geese, as all varieties of waterfowl are extremely fond of the crisp tubers produced by this plant. Plant in moist soil along shoreline in water up to 1 ft. depth. Plant 1000 tubers per acre.

100, \$4 — 1000, \$30

#### THREE-SQUARE BULRUSH roots

Low cover and abundant seed producer. Favorite Marsh Duck Food and seeds are Favorite Food of Geese. Grows in sandy soils along lake shores, streams or marshes. Prefers less than 2 ft. of water. Plant 1000 per acre.

100, \$5 — 1,000, \$35

#### MARSH SMARTWEED roots

For planting on marshy soil, shores, shallow fresh or mildly alkaline water. Withstands flooding and drought well. Plant 1500 per acre.

100, \$4 - 1000, \$30

#### **FALSE BITTERSWEET roots**

Excellent food for Wild Ducks, Pheasants, Woodcock and Snipe. Grows on moist or dry soil, stream banks, swales, bogs, watersides. Ornamental — attractive purple flower, red berries.

ROOTS: 10, \$4 - 100, \$25

#### BUR REED roots

Marsh Duck Food and Cover (2½ to 4 ft. high) producing an abundance of seed that comes closest in Nature to resembling "good old yellow corn". Grows in moist soil or to 1 ft. of water. Plant 1000 roots per acre.

100, \$4 - 1000, \$30

#### WAMPEE DUCK CORN seed

Excellent duck-coaxer, especially for acid, shady areas, also suited for tide water areas. Grows in swampy lands and to 1 ft. of water. Plant 10 lbs. per acre.

\$1.60 per lb. - 5 lbs., \$7

#### \*REDHEAD GRASS

Wild Ducks feed on its seeds, rootstocks and other portions of the plants. Grows in fresh, brackish, alkaline lakes, ponds, streams, in 1 to 6 ft. of water on mud or sandy soils. Excellent food for marsh and diving ducks. Makes food and shelter for bass and other game fish. Plant 1000 roots per acre.

100, \$5 - 1000, \$35

Furnish Duck cover and Muskrat food and cover, growing 7 ft. high in hard or soft bottom soil. Ideal to plant around blinds for cover.

100, \$6 — 1000, \$45

#### MUSKGRASS plants

All parts of plant eaten by many kinds of Ducks. Grows submerged throughout the U. S. and Canada, in hard fresh, brackish or alkaline water a few inches to 30 ft. deep (depending on clarity of water). Excellent for Fish. Plant 5 bu. per acre.

1 bushel, \$10

#### SWEET FLAG roots

Important cover plants for waterfowl, providing nesting sites. Finest natural food plant for Muskrats. Grows in low, marshy, muddy areas, much the same as Bur Reed. Plant 1000 per acre. Valuable shoreline plant.

100, \$6 - 1000, \$45

#### SALICORNIA plants

Produces an abundance of seeds which all species of Wild Ducks eat. Favorite for Mallards, Blacks and Sprig. It thrives on strongly saline or alkaline flats, low ground, marshy places without much water. Plant 4 bu. per acre.

\$15 per bushel — 6 bushel, \$80

#### \*DEEP WATER DUCK POTATO tubers

The tubers this plant produces in abundance are favorite foods of the Bluebills and other Diving Ducks. Grows in 1 to 3 ft. of fresh water, on sandy or mud bottom, slow flowing streams, ponds, lakes and marshes. Plant 1000 per acre.

100, \$5 — 1000, \$35

#### \*WHITE WATERLILY tubers

Ornamental — Bluebill, Teal and 17 other species of Wild Ducks feed on the seed produced. Plant in 1 to 3 ft. of water, preferably on soft mud bottom. Plant 750 tubers per acre.

100, \$8 - 750, \$40

#### DUCK MEATS plants

Quick-growing — reproduces rapidly and withstands a lot of feeding by a lot of Ducks. Makes food soon as sown in water, grows year after year. Does not root in soil, but floats in water over any kind of bottom. Scatter among reeds, rushes or flooded brush. Scatter 12 bu. per acre.

1 bushel, \$10

#### WIDGEON GRASS plants

Excellent Wild Ducks food for salt, brackish and alkaline waters. Grows submerged. Plant in 1 to 6 ft. water, preferably on soft mud bottom. Plant 6 bu. per acre.

1 bushel, \$15 - 6 bushel, \$80

#### GREAT BULRUSH roots

Seeds are excellent food for Ducks. Stands wave action, protects dams, banks, eroding shores, checks silt movement. Grows 5 to 7 ft. high, making excellent blinds, cover for waterfowl. Plant 1000 per acre in 6 in. to 4 ft. of water.

100, \$5 -- 1000, \$35

#### COONTAIL plants

Excellent shelter for game Fish, harbors the aquatic insects and animal life fish eat. Ducks eat seeds and foliage. Plant in fresh water lakes, ponds and streams over any type of bottom and any depth of water. Plant 12 bu. per acre.

1 bushel, \$10

#### GIANT WILD RICE seed

Most famous of the Natural Duck Foods. Grows in a few inches to 3 ft. of fresh water, with sufficient change to prevent stagnancy. Will not grow in water salty to taste. During our years of experience we have perfected the BEST METHODS of handling, storing and shipping Wild Rice, so that its highest germination is preserved. "WILDLIFE" Giant Wild Rice seed is harvested when FULLY RIPE, is expertly handled and stored in our special moist cold storage. in the same state and at the same temperature as in Mother Nature's winter storage house. It is this expert care and handling of our seed, that protects its high germination and insures the successful establishment of luxurious Giant Wild Rice beds. Sow 2 bu, per acre, to insure a strong thrifty bed.

2 qts., \$3.50 — 1 pk., \$12 — 1 bu., \$37.50

#### \*SAGO POND PLANT tubers

One of the best all-around Duck foods in North America. Canvasback, Redhead, Mallard, Pintail, Black Ducks, Wild Geese, Swan and many other waterfowl eagerly feed on the seeds, tender tubers and all parts of the plant. Food and shelter for game fish. Plant throughout the U. S. and Canada in hard fresh, brackish or alkaline water, 1½ to 8 ft. deep, on sandy or mud soil. Plant 1000 per acre.

100, \$5 — 1000, \$35

#### \*WILD CELERY roots

The best way to attract more Canvasback, Redhead, Bluebill and other divers is to establish good beds of Wild Celery — they love to feed on the tender roots, shoots, leaves and large seed pods. Ideal Fish food and cover plant. Plant in 1 to 8 ft. hard fresh or slightly brackish, fairly clear water, on sand or coarse silt, fertile bottom. Plant 1000 per acre.

100, \$5 - 1000, \$35

#### SALT MARSH BULRUSH roots

For salt marshes, low areas where the water is brackish—stands salt water tides. Plant 1000 per acre.

100, \$6 — 1000, \$50

#### SPARTINA (Cord Grass) roots

Fine cover and blinds, providing some food for Ducks. Plant 1500 roots per acre, in marshy meadows, salt marshes, along dikes, banks.

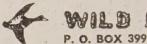
100, \$6 — 1000, \$50

#### WATER CRESS

Mighty tasty to man and bird, also an ideal plant for trout streams. Plant on spring fed streams containing lime, soft mud and sand bottom preferred and water 2 inches to 10 inches in depth. The leaves of these plants may be used in sandwiches or salads on the table and Water Cress will attract and hold ducks.

PLANTS: \$15 per bu. - SEED: \$1.65 per oz.

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All prices in this folder are quoted PREPAID, delivered to your station. Complete planting directions are furnished with all orders and each kind is labeled as to its identity.

#### SAVE EVEN MORE . . .

Write for our SPECIAL PRICE on large orders of \$200.00 or more. Let us know what planting materials are desired and amounts. We will immediately send you a Special Quotation.

#### WEIGHTING OF ROOTS AND TUBERS

\* These marked materials in our folders should be weighted for planting. We will do this for an additional charge of 50c per 100, or you may do this yourself according to our instructions, which we furnish with all orders.

HARDY, EASY TO GROW PLANTS — GROWN TO SUIT YOUR CLIMATE AND WATERS — GUARANTEED TO GROW!

# HOW TO ATTRACT AND HOLD WILD DUCKS!!!

Wild Ducks go and stay longer where they find the BEST feeding grounds — a variety and abundance of their NATURAL foods. They pass up places where food is not plentiful, or just stop for a rest and then fly on, seeking out the beds of Giant Wild Rice, Sago Pond Plant, Wapato and Deep Water Duck Potato, Wild Celery, Smartweeds, Bur Reed, etc.



Fortunately, where such foods are not now growing, they can be planted very easily and these hardy foods will grow year after year when once established, making PERMANENT, natural LEGAL feeding grounds.

We supply both Northern and Southern grown plants, duck foods for fresh hard and soft waters, salt, brackish, and alkaline waters, a complete line, something for all conditions.

NOW . . . is the ideal time to plan and plant your feeding grounds for wild ducks. We have helped many sportsmen, hunting clubs and game commissions throughout the U. S. and Canada, make their places favorite stopping and feeding grounds for wild ducks. Areas that a few years ago were worthless waste places, are now attracting thousands of ducks, that swarm in to feed on the ripened grains and seeds, tender roots, tubers and shoots, as well as the crisp foliage of these NATURAL food plants. That's what sportsmen all over the country are reporting.

On the enclosed pages we list the favorite natural foods of wild ducks, wild geese, food and shelter for fish, and other wild-life, for planting this Spring. Let us know what you want, using handy order blank enclosed, and we'll send materials and complete planting directions at proper planting time.

JOHN J. LEMBERGER, Naturalist

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